

TABLE 1
TIER 1 SURFACE SOIL (0-2 ft) RBSLs (mg/kg)
(includes default RBSLs)

This table applies to contaminated surface soil from 0-2 feet below ground surface. Distance to water is from the sample depth to the water table. For VPH compounds at UST sites, default RBSLs (bold) are used to determine if a release has occurred at a site. Default RBSLs apply to the entire soil column and always apply in the absence of adequate information. For EPH compounds the 200 ppm screening level is used to determine whether a release has occurred at UST sites.

Distance to groundwater		< 10 feet to groundwater				10-20 feet to groundwater				> 20 feet to groundwater			
Chemical	E	Residential	B	Commercial	B	Residential	B	Commercial	B	Residential	B	Commercial	B
For Gasoline and Light Hydrocarbons measured using the Massachusetts Method for Volatile Petroleum Hydrocarbons (VPH)													
C5-C8 Aliphatics	n	40	dc	300	1	40	dc	300	dc	40	dc	300	dc
C9-C12 Aliphatics	n	90	dc	500	dc	90	dc	500	dc	90	dc	500	dc
C9-C10 Aromatics	n	100	dc	100	1	100	dc	500	1	100	dc	700	1
MTBE	n	0.08	1	0.08	1	0.2	1	0.2	1	0.3	1	0.3	1
Benzene	c	0.04	1	0.04	1	0.1	1	0.1	1	0.2	1	0.2	1
Toluene	n	10	1	10	1	40	1	40	1	60	1	60	1
Ethylbenzene	n	10	1	10	1	40	1	40	1	60	1	60	1
Xylenes	n	30	dc	100	dc	30	dc	100	dc	30	dc	100	dc
Naphthalene	n	9	1	9	1	10	dc	30	1	10	dc	40	dc
Lead Scavengers													
1,2-Dibromoethane (EDB)	c	0.00002	1	0.00002	1	0.00004	1	0.00004	1	0.0001	1	0.0001	1
1,2-Dichloroethane (DCA)	c	0.01	1	0.01	1	0.03	1	0.03	1	0.04	1	0.04	1
For Diesel and Heavy Hydrocarbons measured using the Massachusetts Method for Extractable Petroleum Hydrocarbons (EPH)													
C9-C18 Aliphatics	n	200	dc	900	dc	200	dc	900	dc	200	dc	900	dc
C19-C36 Aliphatics	n	2,500	bu	5,000	bu	2,500	bu	5,000	bu	2,500	bu	5,000	bu
C11-C22 Aromatics	n	400	1	400	1	500	dc	1,000	1	500	dc	2,000	1
Acenaphthene	n	200	1	200	1	400	dc	800	1	400	dc	1,000	1
Anthracene	n	2,000	dc	4,000	1	2,000	dc	10,000	1	2,000	dc	20,000	dc
Benz(a)anthracene	c	0.7	dc	4	dc	0.7	dc	4	dc	0.7	dc	4	dc
Benzo(a)pyrene	c	0.07*	dc	0.4	dc	0.07*	dc	0.4	dc	0.07*	dc	0.4	dc
Benzo(b)fluoranthene	c	0.7	dc	4	dc	0.7	dc	4	dc	0.7	dc	4	dc
Benzo(k)fluoranthene	c	7	dc	40	dc	7	dc	40	dc	7	dc	40	dc
Chrysene	c	70	dc	400	dc	70	dc	400	dc	70	dc	400	dc
Dibenzo(a,h)anthracene	c	0.07*	dc	0.4	dc	0.07*	dc	0.4	dc	0.07*	dc	0.4	dc
Fluoranthene	n	300	dc	500	1	300	dc	2,000	1	300	dc	2,000	dc
Fluorene	n	300	dc	600	1	300	dc	2,000	1	300	dc	2,000	dc
Indeno(1,2,3-cd)pyrene	c	0.7	dc	4	dc	0.7	dc	4	dc	0.7	dc	4	dc
Naphthalene	n	9	1	9	1	10	dc	30	1	10	dc	40	dc
Pyrene	n	200	dc	2,000	dc	200	dc	2,000	dc	200	dc	2,000	dc

Notes:

E = Effect is either:

n = non-carcinogenic and direct contact RBSLs are based on a hazard quotient of 0.125 for a total hazard index which does not exceed 1, or
 c = carcinogenic and direct contact RBSLs are based on a cancer risk of 1×10^{-6} for a total cancer risk which does not exceed 1×10^{-5} .

B = Basis is the most conservative of:

1 = leaching from soil to groundwater;
 dc = residential direct contact including ingestion, inhalation, and dermal; or
 bu = adversely affects beneficial uses (foul odor or taste).

If the leaching pathway is not the most conservative basis, residential or commercial RBSLs apply to surface soil.

* = The best achievable practical quantitation limit (0.33) is greater than the RBSL; therefore, if the compound is detected, additional evaluation may be necessary.

DEQ's RBCA policy includes a ceiling concentration of 100 mg/kg for the total of the gasoline range fractions and 2,500 mg/kg for the total of the diesel range fractions in residential soil.

DEQ's RBCA policy includes a ceiling concentration of 500 mg/kg for the total of the gasoline range fractions and 5,000 mg/kg for the total of the diesel range fractions in commercial soil.